

Application No.: 10/605,918

Attorney Docket No.: 112.P14282

## AMENDMENTS

### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) An ~~optical storage medium reading~~ device, comprising:

an optical storage module, having an optical storage medium therein;

a light-switching module, for selecting a final light source according to the optical storage medium and projecting ~~the~~ one or more first light beams ~~from~~ from the final light source outward;

a wave-distance-dividing module, for dividing the one or more first light beams ~~selected final light source~~ into one or more equidistant second light sources beams and projecting the one or more second light beams ~~light sources~~ onto the optical storage medium; and

an optical sensor module, for identifying data on the optical storage medium according to the light wave reflected from the optical storage medium inside the optical storage module.

2. (Currently Amended) The device of claim 1, wherein the wavelength of ~~one of~~ the final light sources is comprises 650nm.

3. (Currently Amended) The device of claim 1, wherein the wavelength of ~~one of~~ the final light sources is comprises 780nm.

4. (Currently Amended) The device of claim 1, wherein the distance of separation of the second light beams sources after the final light source is divided by the wave-distance-~~dividing-diving~~ module is comprises 0.74 $\mu$ m.

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5. (Currently Amended) The device of claim 1, wherein the distance of separation of the second light beams sources after the final light source is divided by the wave-distance-dividing-diving module is comprises 1.6 $\mu$ m.

6. (Currently Amended) The device of claim 1, wherein the device further comprises an alignment module for receiving light from the wave-distance-dividing module and for projecting the light onto the optical storage medium.

7. (Currently Amended) The device of claim 1, wherein the device further comprises an alignment module for receiving light reflected from the optical storage medium and for projecting the reflected light onto the optical sensor module.

8. (Original) The device of claim 7, wherein the alignment module further comprises a plurality of spherical lenses for focusing the reflected light onto a plurality of optical sensor cells on the optical sensor module.

9. (Original) The device of claim 1, wherein the device further comprises a micro-adjusting module for shifting the optical sensor module so that light reflected from the optical storage medium can focus accurately onto the optical sensor cells of the optical sensor module.

10. (Currently Amended) The device of claim 1, wherein the optical sensor module further comprises a plurality of concave lenses for magnifying light falling on the optical sensor module to an image that so as to targets various optical sensor cells on the optical sensor module is produced.

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11. (Currently Amended) The device of claim 1, wherein the light-switching module is operable to adjusts according to a type of final light source and a selected ~~and the location of the light sources~~ ~~according to the~~ signal from a ~~[[the]]~~ micro-adjusting module.

12. (New) An apparatus comprising:

an optical storage reading module capable of reading more than one type of optical storage medium;

an optical sensor module capable of identifying data on more than one type of optical storage medium; and

a light-switching module capable of;

selecting a final light source based at least in part on the type of optical storage medium being read;

distancing the selected final light source into light beams; and

projecting the light beams onto the optical storage medium.

13. (New) The apparatus of claim 12, wherein the light beams comprise a first plurality of light beams; and further comprising:

a wave-distance-dividing module capable of dividing the first plurality of light beams into a second plurality of light beams and capable of projecting the second plurality of light beams onto the optical storage medium.

14. (New) The apparatus of claim 12, wherein the wavelength of the final light source comprises 650nm.

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15. (New) The apparatus of claim 12, wherein the wavelength of the final light source comprises 780nm.

16. (New) The apparatus of claim 13, wherein the distance of separation of the second plurality of light beams comprises 0.74 $\mu$ m.

17. (New) The apparatus of claim 13, wherein the distance of separation of the second plurality of light beams comprises 1.6  $\mu$ m.

18. (New) The apparatus of claim 13, and further comprising:

an alignment module capable of receiving one or more of the second plurality of light beams from the wave-distance-dividing module and capable of projecting the one or more light beams onto the optical storage medium.

19. (New) The apparatus of claim 12, further comprising:

an alignment module capable of receiving light reflected from the optical storage medium and capable of projecting the reflected light onto the optical sensor module.

20. (New) The apparatus of claim 12, further comprising:

a plurality of convex lenses capable of focusing light reflected from the optical storage medium onto a plurality of optical sensor cells on the optical sensor module.

21. (New) The apparatus of claim 12, further comprising:

a micro-adjusting module capable of shifting the optical sensor module.

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22. (New) The apparatus of claim 12, further comprising:

a plurality of concave lenses capable of magnifying one or more light beams falling on the optical sensor module.

23. (New) The apparatus of claim 22, wherein the concave lenses are capable of targeting the magnified light beams onto optical sensor cells located on the optical sensor module.

24. (New) The apparatus of claim 12, wherein the light-switching module is capable of adjusting according to a type of final light source selected and capable of positioning the final light source according to data read from the optical storage medium.

25. (New) The apparatus of claim 12, wherein the light-switching module comprises a plurality of point light sources.

26. (New) The apparatus of claim 25, wherein the light-switching module is capable of activating and/or deactivating one or more of the point light sources.

27. (New) The apparatus of claim 25, wherein the light-switching module is capable of activating one or more of the point light sources to emit light with a substantially specific wavelength.

28. (New) A method comprising:

reading more than one type of optical storage medium, wherein said reading further comprises:

selecting a final light source based on the type of optical storage medium being

read;

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distancing the selected final light source into a plurality light beams;  
projecting the one or more light beams onto the optical storage medium being  
read; and  
identifying data on the optical storage medium being read.

29. (New) The method of claim 28, wherein the plurality of light beams comprises a first plurality of light beams; and further comprising:

dividing the first plurality of light beams into a second plurality of light beams; and  
projecting the second plurality of light beams onto the optical storage medium being read.

30. (New) The method of claim 29, further comprising:

receiving one or more light beams from the second plurality; and  
projecting the one or more light beams onto the optical storage medium being read.

31. (New) The method of claim 28, further comprising:

receiving light reflected from the optical storage medium being read; and  
projecting the reflected light onto the optical sensor module.

32. (New) The method of claim 28, wherein the identifying data further comprises:

focusing one or more light beams reflected from the optical storage medium being read.

33. (New) The method of claim 28, wherein the identifying data further comprises:

magnifying one or more light beams reflected from the optical storage medium being read.

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34. (New) The method of claim 28, wherein the identifying data further comprises:

micro-tuning a position of an optical sensor module capable of receiving light beams reflected from the optical storage medium being read.

35. (New) The method of claim 28, further comprising adjusting a final light source and positioning the final light source according to data read from the optical storage medium.

36. (New) The method of claim 28, wherein the selecting a final light source based on the type of optical storage medium being read further comprises activating and/or deactivating one or more of a plurality of point light sources.

37. (New) An apparatus comprising:

means for reading more than one type of optical storage medium, wherein said

means for reading comprises:

means for selecting a final light source based on the type of optical storage medium being read;

means for distancing final light source into a plurality of light beams; and

means for projecting the plurality light beams onto the optical storage medium being read.

38. (New) The apparatus of claim 37, wherein the plurality of light beams comprises a first plurality; and wherein said means for reading further comprises:

means for identifying data on the optical storage medium being read;

means for dividing the first plurality of light beams into a second plurality of light

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beams; and  
means for projecting the second plurality of light beams onto the optical storage medium being read.

39. (New) The apparatus of claim 38, wherein:

the means for projecting the second plurality of light beams further comprises a first means for aligning one or more of the second plurality of light beams with the optical storage medium; and

the means for identifying data further comprises a second means for aligning one or more of the second plurality of light beams reflected from the optical storage medium with an optical sensor module.

40. (New) The apparatus of claim 39, wherein the first means for aligning one or more of the second plurality of light beams further comprises:

means for adjusting a final light source and positioning the final light source..

41. (New) The apparatus of claim 39, wherein the second means for aligning one or more of the second plurality of light beams further comprises:

means for shifting the optical sensor module so that one or more of the second plurality of light beams reflected from the optical storage medium can focus accurately onto the optical sensor cells of the optical sensor module.

42. (New) The apparatus of claim 12, further comprising:

a plurality of spherical lenses capable of focusing light reflected from the optical storage medium onto a plurality of optical sensor cells on the optical sensor module.